

1 National Geodetic Survey, Retrieval Date = August 3, 2007
 JV6854 *****

P0930

JV6854 DESIGNATION - SMITH
 JV6854 PID - JV6854
 JV6854 STATE/COUNTY- MD/HARFORD
 JV6854 USGS QUAD - CONOWINGO DAM (1995)
 JV6854
 JV6854 *CURRENT SURVEY CONTROL
 JV6854
 JV6854* NAD 83(1991)- 39 40 03.85754(N) 076 12 40.63406(W) ADJUSTED
 JV6854* NAVD 88 - 106.1 (meters) 348. (feet) VERTCON
 JV6854
 JV6854 X - 1,171,784.178 (meters) COMP
 JV6854 Y - -4,774,710.946 (meters) COMP
 JV6854 Z - 4,049,703.189 (meters) COMP
 JV6854 LAPLACE CORR- -2.12 (seconds) DEFLEC99
 JV6854 ELLIP HEIGHT- 73.236 (meters) (09/18/02) GPS OBS
 JV6854 GEOID HEIGHT- -32.83 (meters) GEOID03
 JV6854
 JV6854 HORZ ORDER - FIRST
 JV6854 ELLP ORDER - FOURTH CLASS II
 JV6854

JV6854.The horizontal coordinates were established by GPS observations
 JV6854.and adjusted by the National Geodetic Survey in January 1992.

JV6854
 JV6854.The NAVD 88 height was computed by applying the VERTCON shift value to
 JV6854.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)

JV6854
 JV6854.The X, Y, and Z were computed from the position and the ellipsoidal ht.

JV6854
 JV6854.The Laplace correction was computed from DEFLEC99 derived deflections.

JV6854
 JV6854.The ellipsoidal height was determined by GPS observations
 JV6854.and is referenced to NAD 83.

JV6854
 JV6854.The geoid height was determined by GEOID03.

JV6854;

	North	East	Units	Scale Factor	Converg.
JV6854;SPC MD	- 222,431.182	467,678.752	MT	1.00004535	+0 29 42.1
JV6854;SPC MD	- 729,759.64	1,534,376.04	sFT	1.00004535	+0 29 42.1
JV6854;UTM 18	- 4,391,581.564	396,104.046	MT	0.99973289	-0 46 23.8

JV6854
 JV6854!
 JV6854!SPC MD - Elev Factor x Scale Factor = Combined Factor
 - 0.99998851 x 1.00004535 = 1.00003386
 JV6854!UTM 18 - 0.99998851 x 0.99973289 = 0.99972140

JV6854

PID	Reference Object	Distance	Geod. Az
			ddmmss.s
JV6854	JV6855 SMITH AZ MK	359.573 METERS	21607

JV6854

JV6854
 JV6854 SUPERSEDED SURVEY CONTROL
 JV6854
 JV6854 ELLIP H (01/27/92) 73.235 (m) GP() 4 1
 JV6854 NAD 83(1986)- 39 40 03.85068(N) 076 12 40.64011(W) AD() 1

JV6854 NGVD 29 (06/18/91) 106.3 (m) 349. (f) GPS OBS
 JV6854
 JV6854.Superseded values are not recommended for survey control.
 JV6854.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 JV6854.[See file dsdata.txt](#) to determine how the superseded data were derived.
 JV6854

JV6854_U.S. NATIONAL GRID SPATIAL ADDRESS: 18SUJ9610491582(NAD 83)
 JV6854_MARKER: DD = SURVEY DISK
 JV6854_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 JV6854_SP_SET: CONCRETE POST
 JV6854_STAMPING: 93 SMITH 1989
 JV6854_MARK LOGO: MD-025
 JV6854_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
 JV6854_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 JV6854+STABILITY: SURFACE MOTION
 JV6854_SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR
 JV6854+SATELLITE: SATELLITE OBSERVATIONS - June 17, 2005

JV6854	HISTORY	- Date	Condition	Report By
JV6854	HISTORY	- 1989	MONUMENTED	RDA
JV6854	HISTORY	- 20010303	GOOD	USPSQD
JV6854	HISTORY	- 20050617	GOOD	GEOCAC

JV6854
 JV6854 STATION DESCRIPTION
 JV6854

JV6854'DESCRIBED BY RINKER DETWILER AND ASSOCIATES 1989
 JV6854'THE STATION IS LOCATED IN NORTHEASTERN HARFORD COUNTY, MARYLAND ABOUT
 JV6854'0.5 MILES NORTH OF THE VILLAGE OF BERKLEY.
 JV6854'TO REACH THE STATION FROM THE INTERSECTION OF FEDERAL HIGHWAY 1 AND
 JV6854'STATE HIGHWAY 623 PROCEED NORTH ALONG HIGHWAY 623 1.35 MILES TO ITS
 JV6854'INTERSECTION WITH SMITH ROAD AND THE STATION ON THE RIGHT.
 JV6854'THE STATION IS A STANDARD HARFORD COUNTY STATION DISK SET IN CONCRETE
 JV6854'ABOUT 1 INCH BELOW GROUND STAMPED 93 SMITH 1989. THE STATION IS 23.0
 JV6854'FEET EAST OF THE CENTERLINE OF HIGHWAY 623, 31.0 FEET NORTH OF
 JV6854'CONOWINGO POWER POLE NUMBER 20760, AND 34.0 FEET SOUTHEAST OF THE
 JV6854'CENTERLINE OF THE EAST SIDE OF THE INTERSECTION OF SMITH ROAD.

JV6854
 JV6854 STATION RECOVERY (2001)
 JV6854

JV6854'RECOVERY NOTE BY US POWER SQUADRON 2001 (DG)
 JV6854'RECOVERED IN GOOD CONDITION.

JV6854
 JV6854 STATION RECOVERY (2005)
 JV6854

JV6854'RECOVERY NOTE BY GEOCACHING 2005 (WD)
 JV6854'STATE HIGHWAY 623 IS ALSO KNOWN AS CASTLETON ROAD IN THIS AREA. THE
 JV6854'CONOWINGO POWER POLE IS NOW NUMBERED 20760 29949 40730. THE STATION
 JV6854'IS ONE FOOT WEST OR AN ORANGE CARSONITE WITNESS POST.

**RINKER-DETWILER INFORMATION FROM HARFORD COUNTY SURVEY CONTROL BOOK
 NAD 83/86 COORDINATES - NGVD29 ELEVATIONS**

LATITUDE	039 40 03.85088	NORTH(sf)	729758.958
LONGITUDE	076 12 40.63851	EAST(sf)	1534375.697
GRID AZ.	215 37 17.1	ELEV. GPS OBS.	348.81 ft.

1 National Geodetic Survey, Retrieval Date = August 3, 2007
 JV6855 *****

P0931

JV6855 DESIGNATION - SMITH AZ MK
 JV6855 PID - JV6855
 JV6855 STATE/COUNTY- MD/HARFORD
 JV6855 USGS QUAD - CONOWINGO DAM (1995)

JV6855 *CURRENT SURVEY CONTROL

JV6855* NAD 83(1991)- 39 39 54.43915(N) 076 12 49.52574(W) ADJUSTED
 JV6855* NAVD 88 - 111.8 (meters) 367. (feet) VERTCON

JV6855 X - 1,171,623.585 (meters) COMP
 JV6855 Y - -4,774,945.820 (meters) COMP
 JV6855 Z - 4,049,483.250 (meters) COMP
 JV6855 LAPLACE CORR- -2.11 (seconds) DEFLEC99
 JV6855 ELLIP HEIGHT- 78.974 (meters) (09/18/02) GPS OBS
 JV6855 GEOID HEIGHT- -32.82 (meters) GEOID03

JV6855 HORZ ORDER - FIRST
 JV6855 ELLP ORDER - FOURTH CLASS II

JV6855.The horizontal coordinates were established by GPS observations
 JV6855.and adjusted by the National Geodetic Survey in January 1992.

JV6855.The NAVD 88 height was computed by applying the VERTCON shift value to
 JV6855.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)

JV6855.The X, Y, and Z were computed from the position and the ellipsoidal ht.

JV6855.The Laplace correction was computed from DEFLEC99 derived deflections.

JV6855.The ellipsoidal height was determined by GPS observations

JV6855.and is referenced to NAD 83.

JV6855.The geoid height was determined by GEOID03.

	North	East	Units	Scale Factor	Converg.
JV6855; SPC MD	- 222,138.877	467,469.318	MT	1.00004472	+0 29 36.5
JV6855; SPC MD	- 728,800.63	1,533,688.92	sFT	1.00004472	+0 29 36.5
JV6855; UTM 18	- 4,391,294.056	395,888.261	MT	0.99973345	-0 46 29.3

JV6855!
 JV6855! SPC MD - Elev Factor x Scale Factor = Combined Factor
 - 0.99998761 x 1.00004472 = 1.00003233
 JV6855! UTM 18 - 0.99998761 x 0.99973345 = 0.99972106

PID	Reference Object	Distance	Geod. Az
			ddmmss.s
JV6855	JV6854 SMITH	359.573 METERS	03607

JV6855 SUPERSEDED SURVEY CONTROL

JV6855 ELLIP H (01/27/92) 78.972 (m) GP() 4 1
 JV6855 NAD 83(1986)- 39 39 54.43230(N) 076 12 49.53179(W) AD() 1

JV6855 NGVD 29 (06/18/91) 112.0 (m) 367. (f) GPS OBS
JV6855

JV6855.Superseded values are not recommended for survey control.
JV6855.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
JV6855.[See file dsdata.txt](#) to determine how the superseded data were derived.
JV6855

JV6855_U.S. NATIONAL GRID SPATIAL ADDRESS: 18SUJ9588891294(NAD 83)

JV6855_MARKER: DZ = AZIMUTH MARK DISK

JV6855_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

JV6855_SP_SET: CONCRETE POST

JV6855_STAMPING: 93 SMITH 1989

JV6855_MARK LOGO: MD-025

JV6855_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET

JV6855_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

JV6855+STABILITY: SURFACE MOTION

JV6855_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

JV6855+SATELLITE: SATELLITE OBSERVATIONS - June 17, 2005

JV6855

JV6855	HISTORY	- Date	Condition	Report By
JV6855	HISTORY	- 1989	MONUMENTED	RDA
JV6855	HISTORY	- 19900105	GOOD	
JV6855	HISTORY	- 20010303	GOOD	USPSQD
JV6855	HISTORY	- 20050617	GOOD	GEOCAC

JV6855

JV6855

STATION DESCRIPTION

JV6855

JV6855'DESCRIBED BY RINKER DETWILER AND ASSOCIATES 1989

JV6855'TO REACH THE AZIMUTH MARK FROM THE STATION PROCEED WEST ALONG SMITH
JV6855'ROAD 0.2 MILES TO THE MARK ON THE LEFT.

JV6855'THE MARK IS A STANDARD HARFORD COUNTY AZIMUTH DISK SET IN CONCRETE

JV6855'ABOUT 1 INCH BELOW GROUND STAMPED 93 SMITH 1989. THE MARK IS 15.0

JV6855'FEET SOUTH OF THE CENTERLINE OF SMITH ROAD, 63.0 FEET SOUTHWEST OF

JV6855'CONOWINGO POWER POLE NUMBER 7, 126.3 FEET SOUTHEAST OF CONOWINGO POWER

JV6855'POLE NUMBER 8, AND 1179.71 FEET FROM THE STATION.

JV6855

JV6855

STATION RECOVERY (1990)

JV6855

JV6855'RECOVERED 1990

JV6855'RECOVERED IN GOOD CONDITION.

JV6855

JV6855

STATION RECOVERY (2001)

JV6855

JV6855'RECOVERY NOTE BY US POWER SQUADRON 2001 (DG)

JV6855'WITNESS POST BROKEN OFF AT GROUND LEVEL AND LAYING ASIDE OF STATION AT

JV6855'END OF CORN FIELD.

JV6855

JV6855

STATION RECOVERY (2005)

JV6855

JV6855'RECOVERY NOTE BY GEOCACHING 2005 (WD)

JV6855'CONOWINGO POWER POLE NUMBER 7 IS NOW NUMBERED 9781 29870 40648,

JV6855'CONOWINGO POWER POLE NUMBER 8 IS NOW NUMBERED 20758 29857 40634. THE

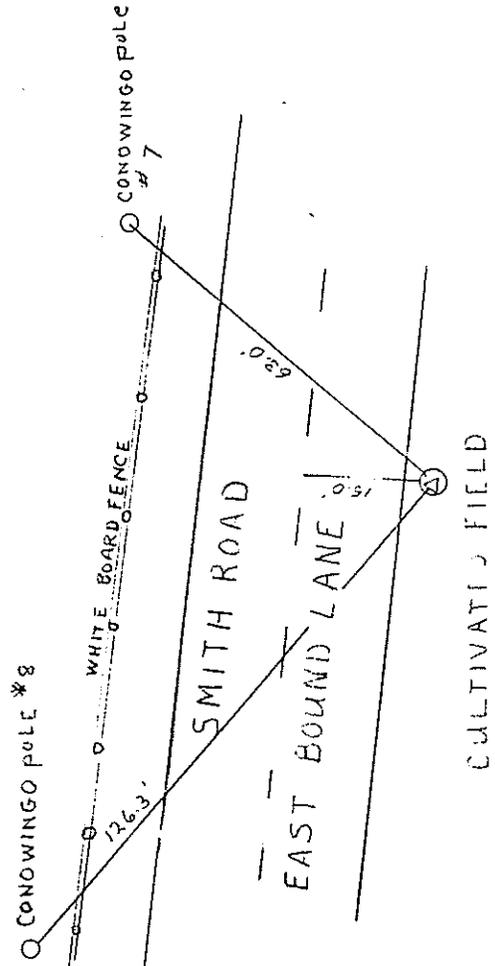
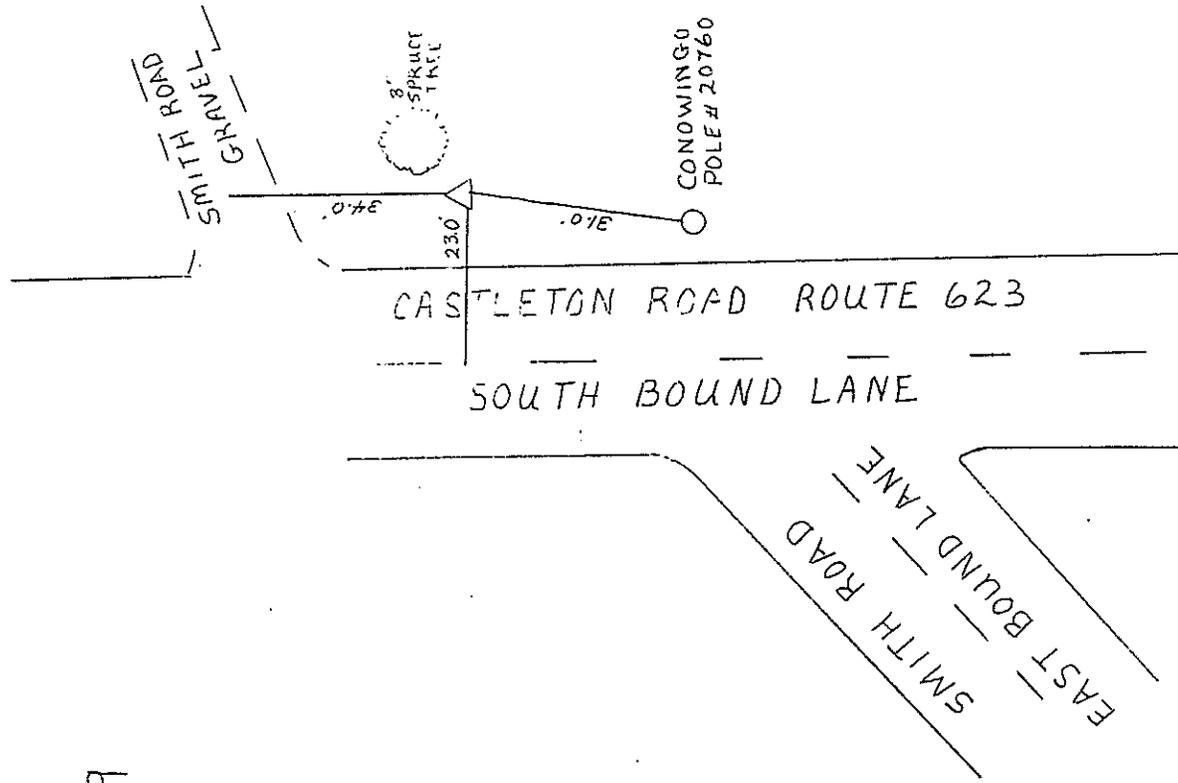
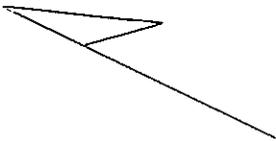
JV6855'STATION IS ABOUT 200 FEET SOUTHWEST AND ACROSS THE ROAD FROM A

JV6855'DRIVEWAY LEADING NORTHWEST TO FOWLER FORESTRY SERVICES.

**RINKER-DETWILER INFORMATION FROM HARFORD COUNTY SURVEY CONTROL BOOK
NAD 83/86 COORDINATES - NGVD29 ELEVATIONS**

LATITUDE	039 39 54.43252	NORTH(sf)	728799.958
LONGITUDE	076 12 49.53021	EAST(sf)	1533688.578
GRID AZ.	035 37 17.1	ELEV. GPS OBS.	367.62 ft.

93 SMITH 1989



RINKER-DETWILER & ASSOCIATES, P.C.

Engineering • Surveying • Land Planning
Global Positioning System • Mapping

